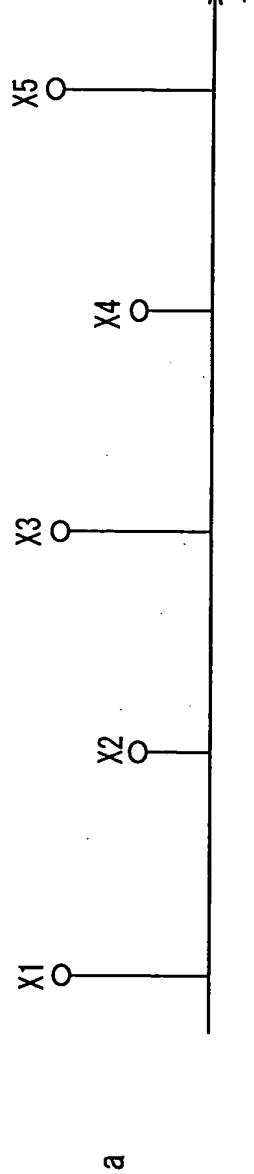
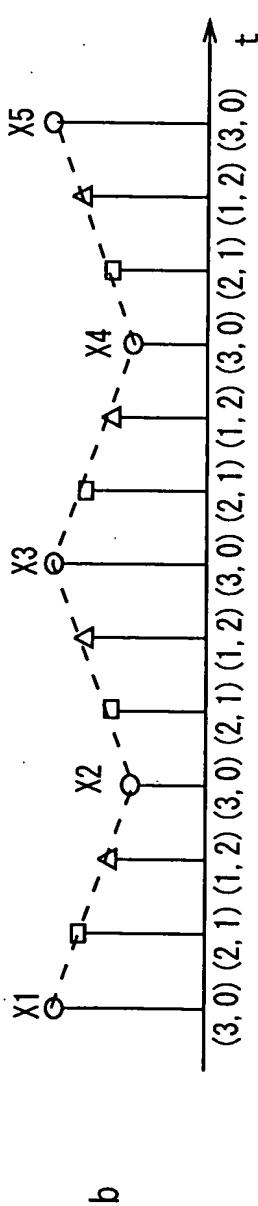


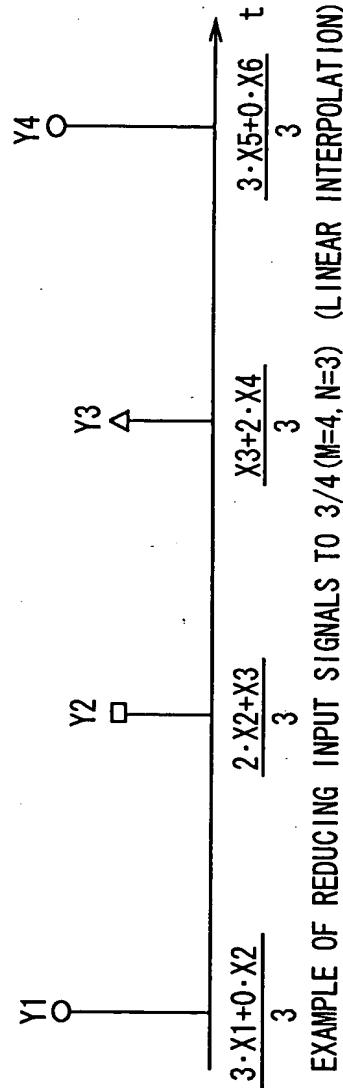
INPUT SIGNALS



MULTIPLY INPUT SIGNALS  
BY N AND PERFORM LINEAR  
INTERPOLATION ON THEM



PERFORM THINNING-OUT  
INTO  $1/M$



EXAMPLE OF REDUCING INPUT SIGNALS TO  $3/4$  ( $M=4, N=3$ ) (LINEAR INTERPOLATION)

FIG. 1

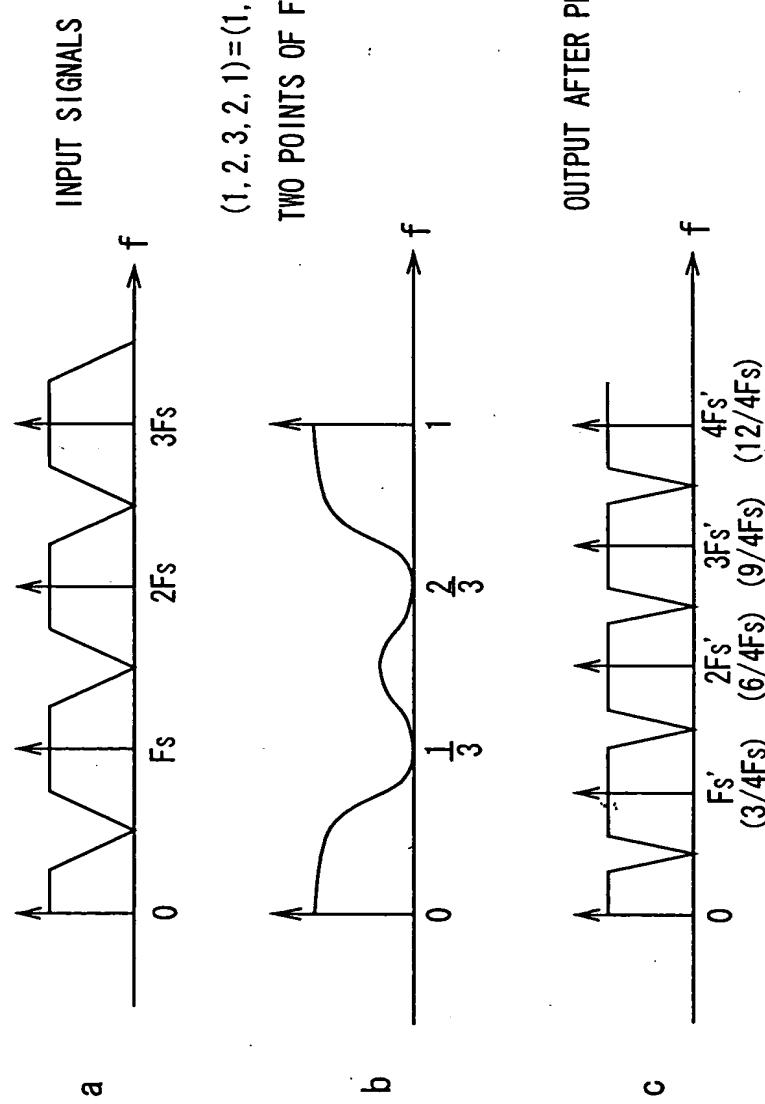


FIG. 2

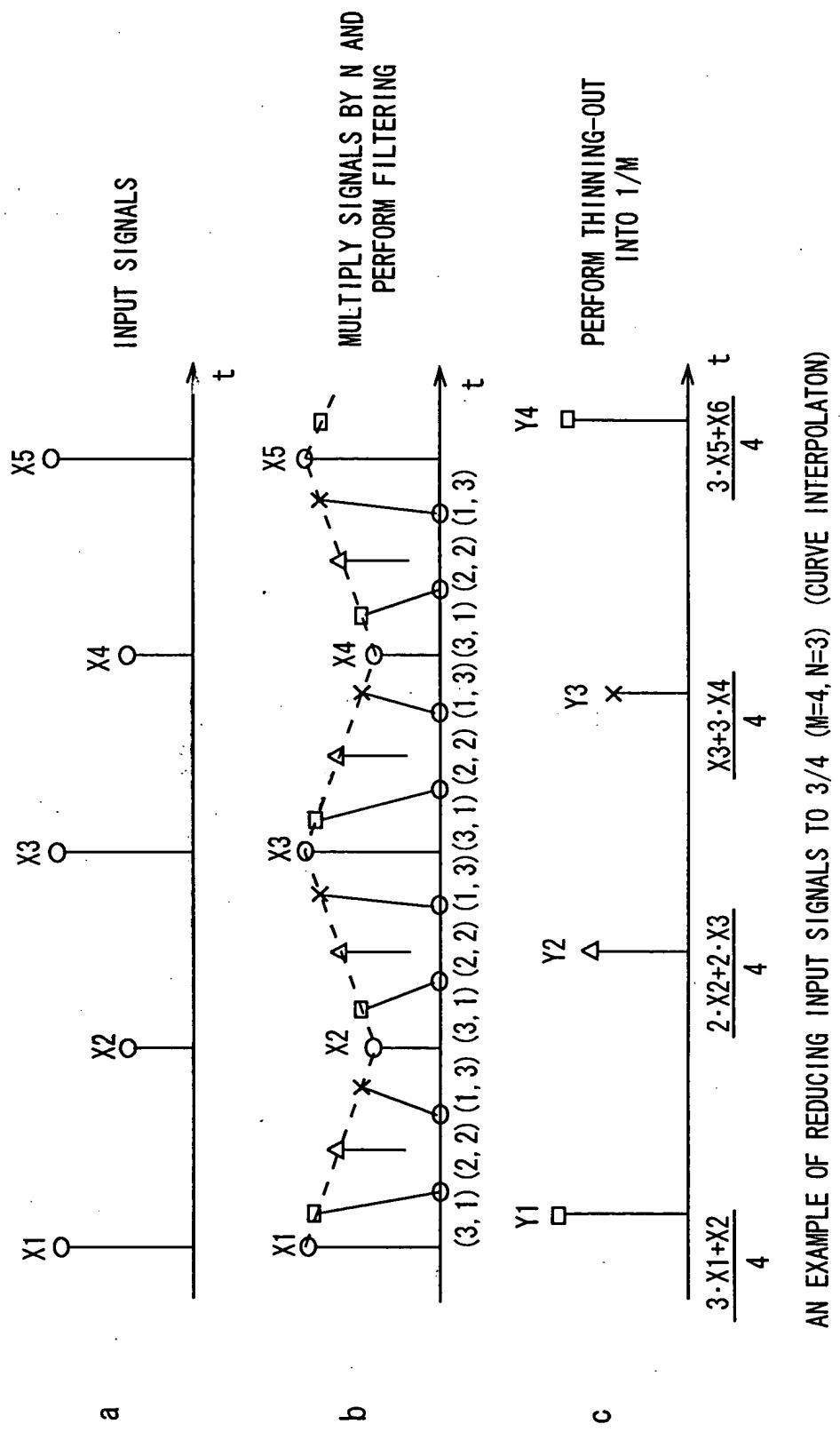


FIG. 3

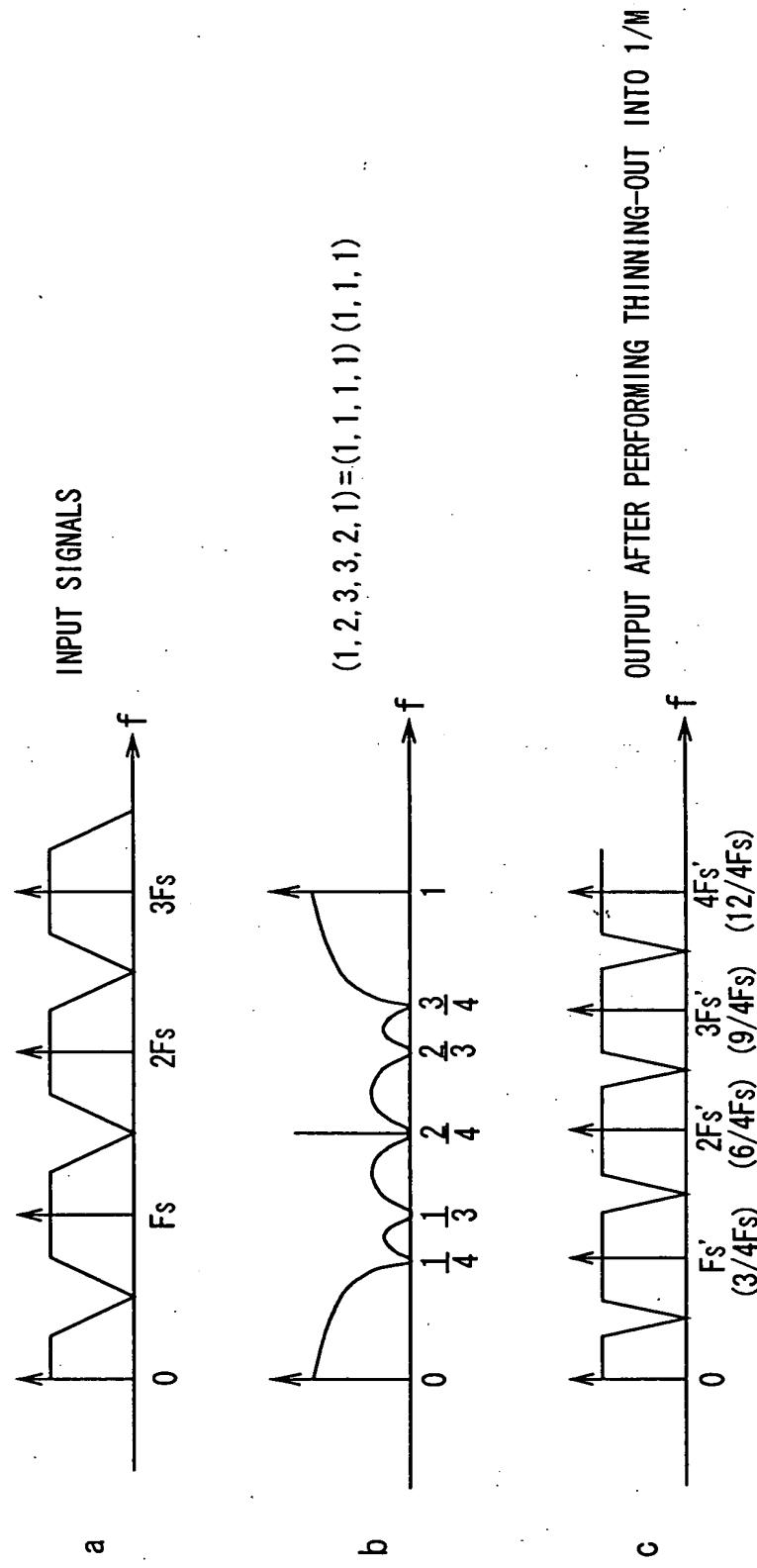


FIG. 4

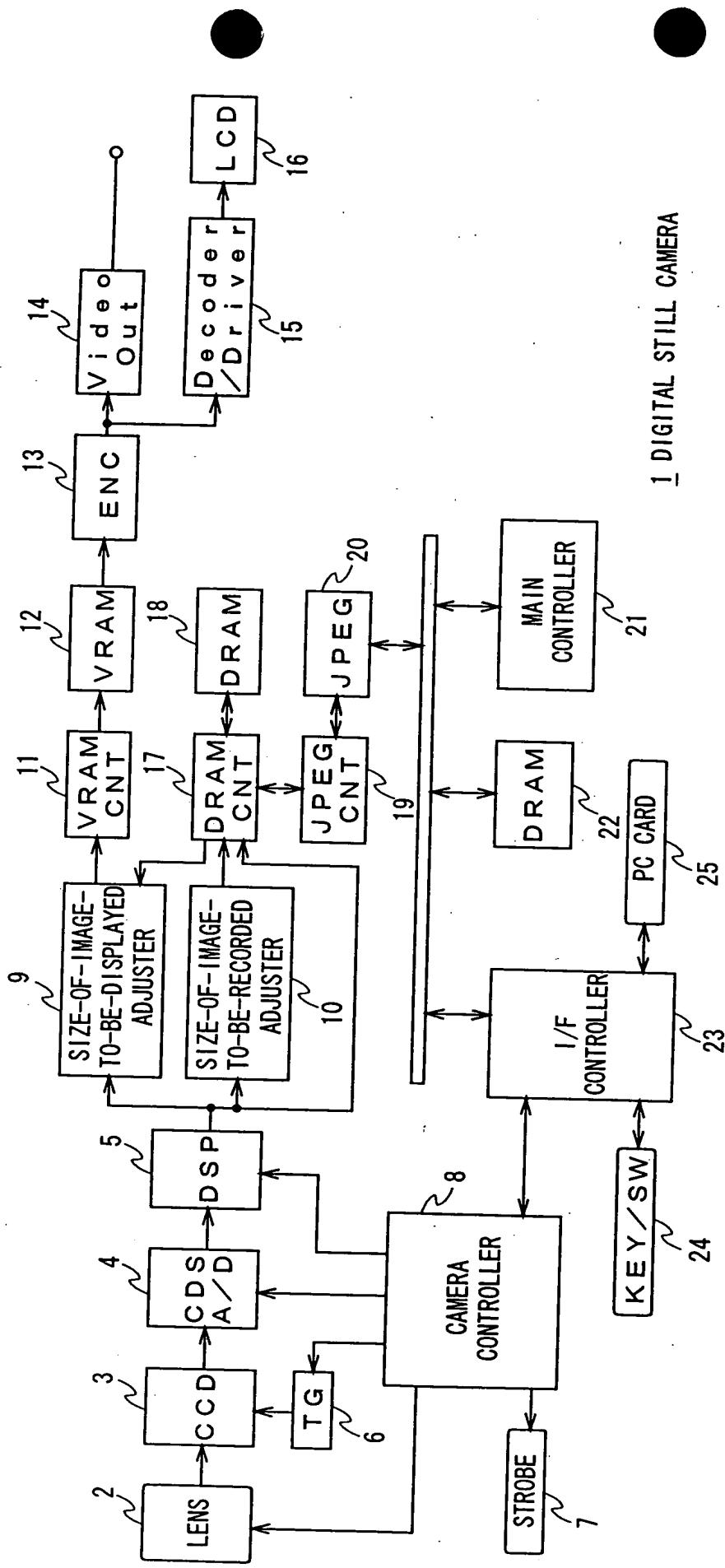


FIG. 5

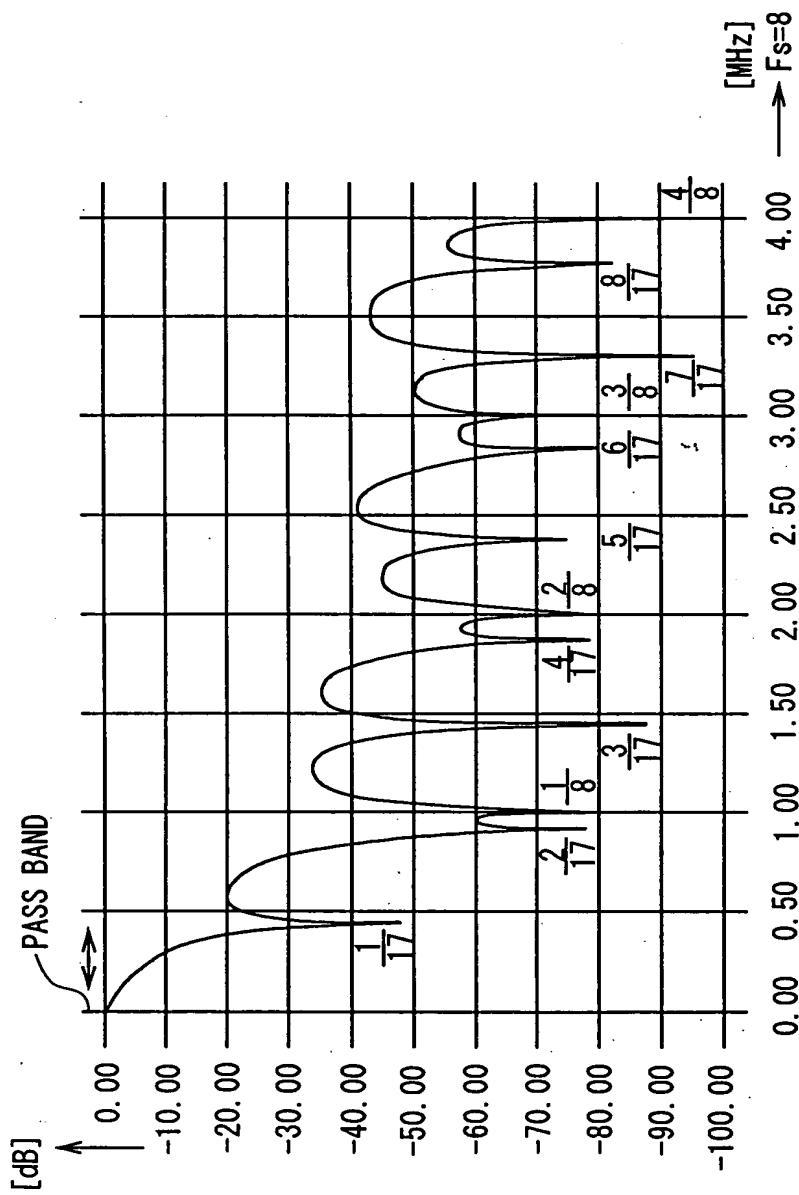
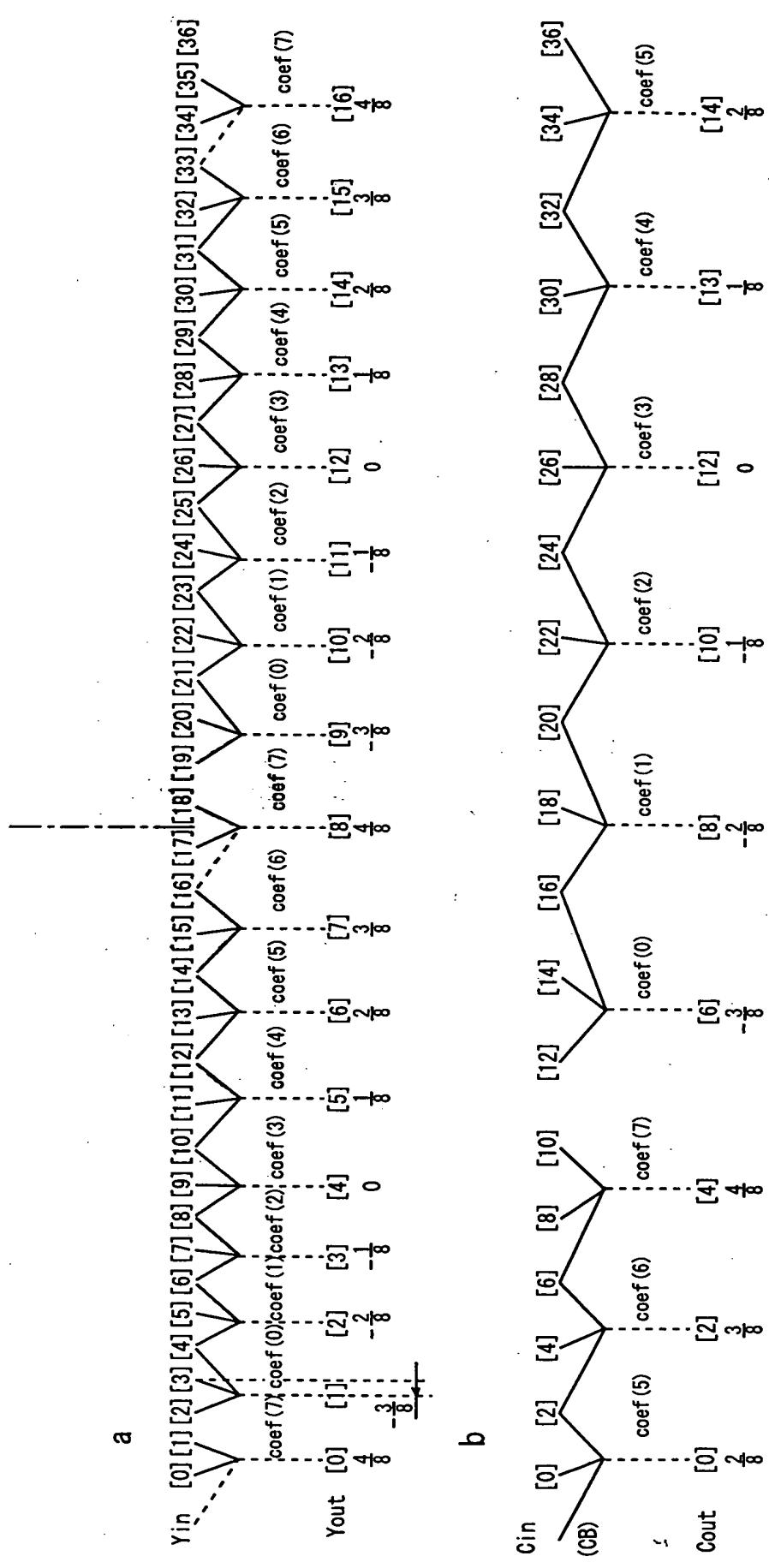


FIG. 6



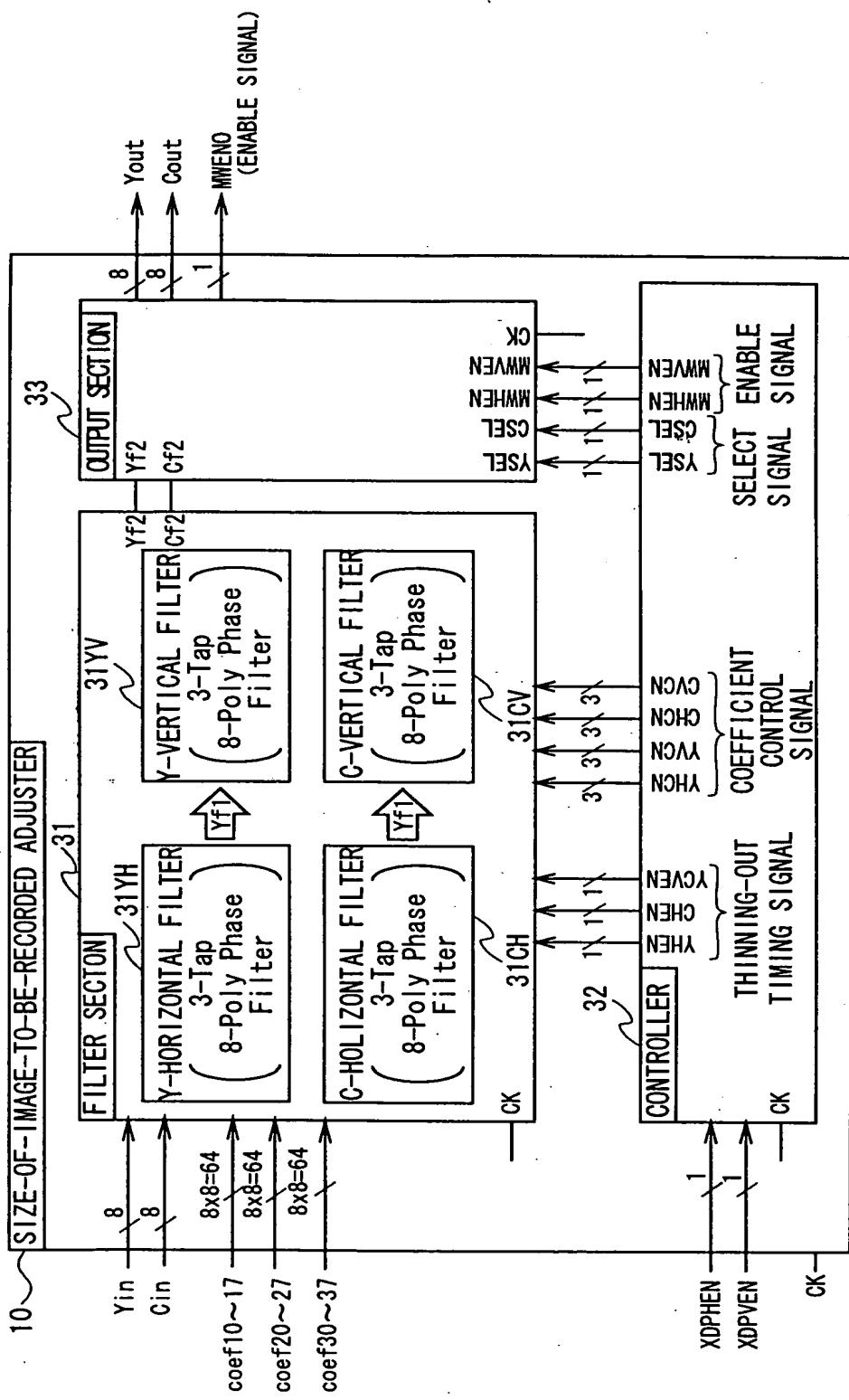
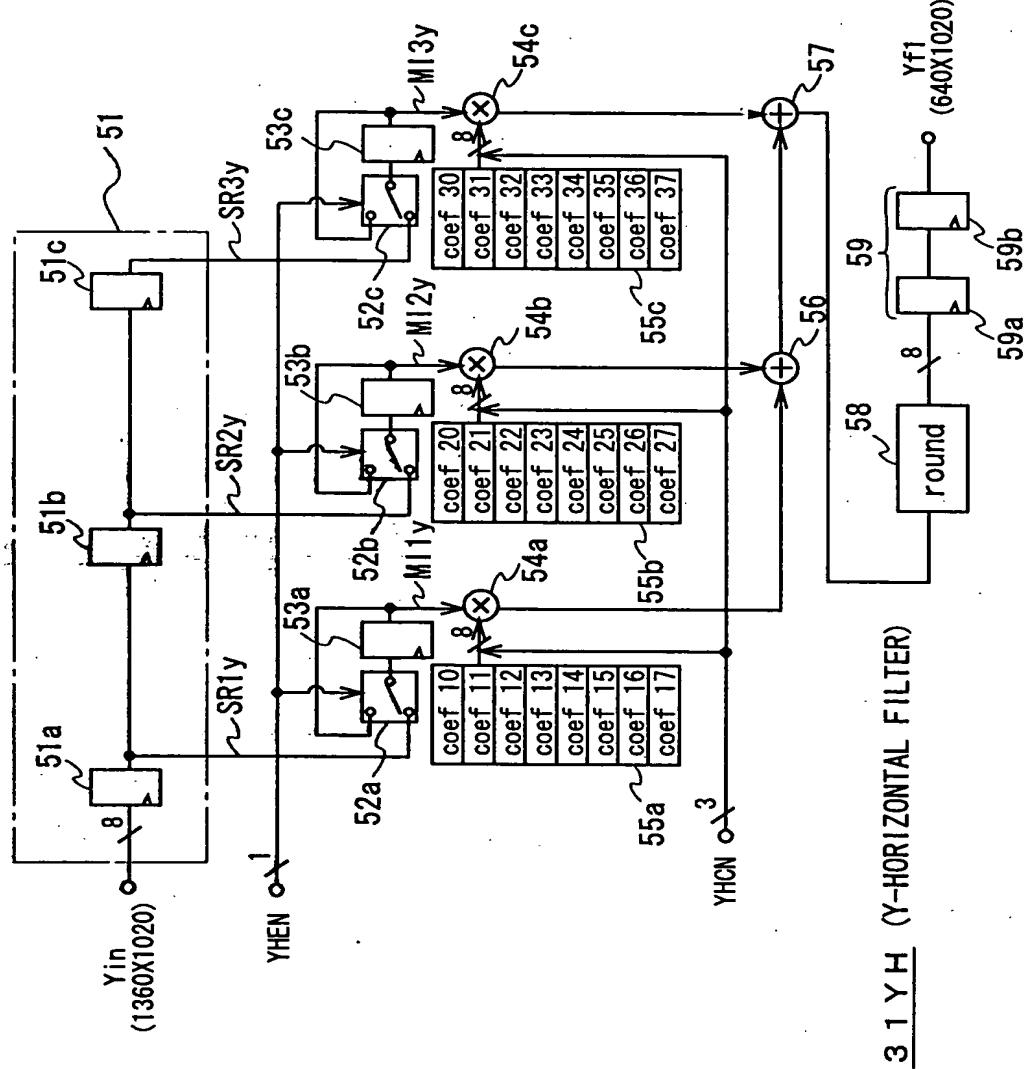


FIG. 8



## 31 YH (Y-HORIZONTAL FILTER)

6  
FIG.

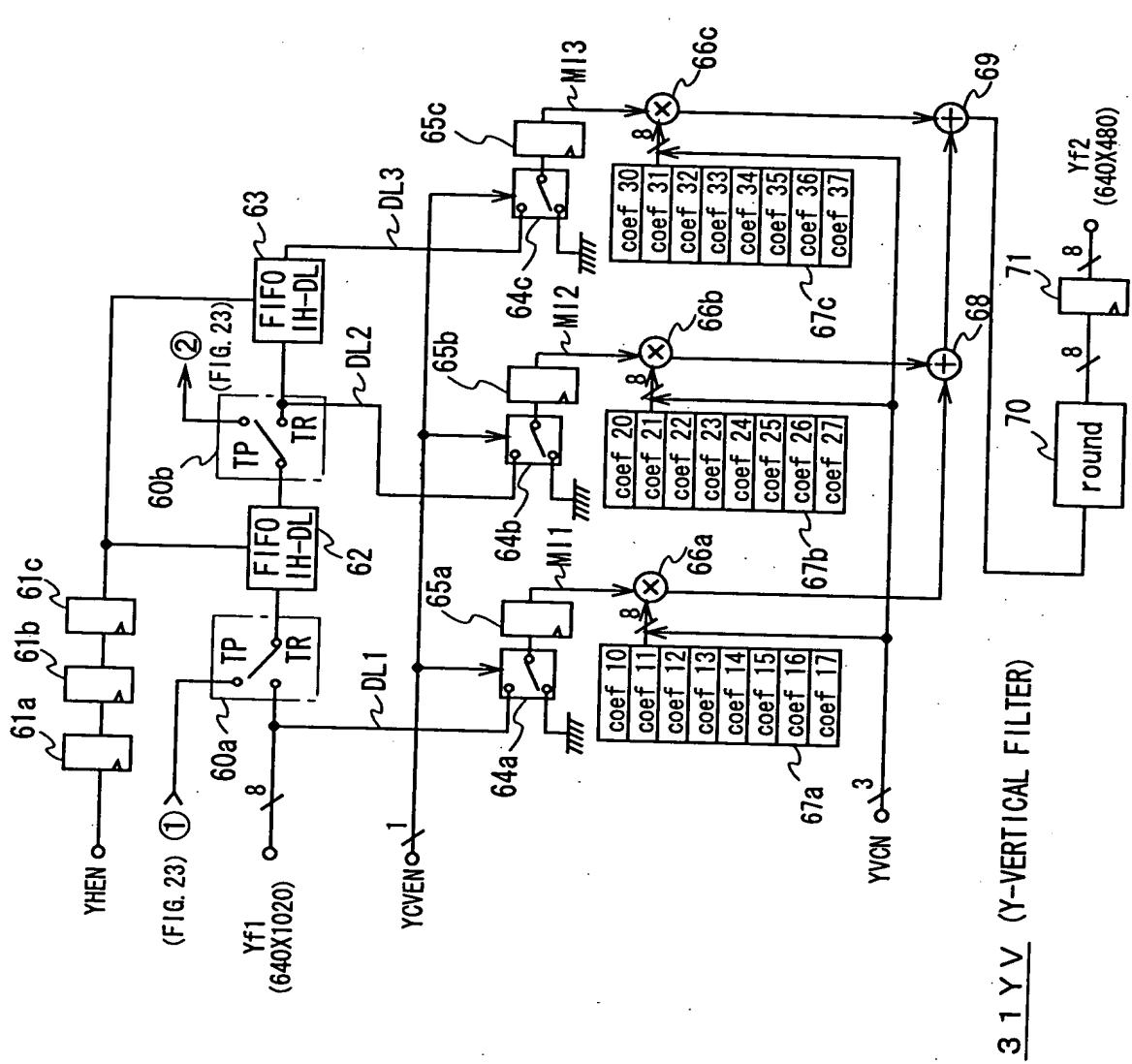
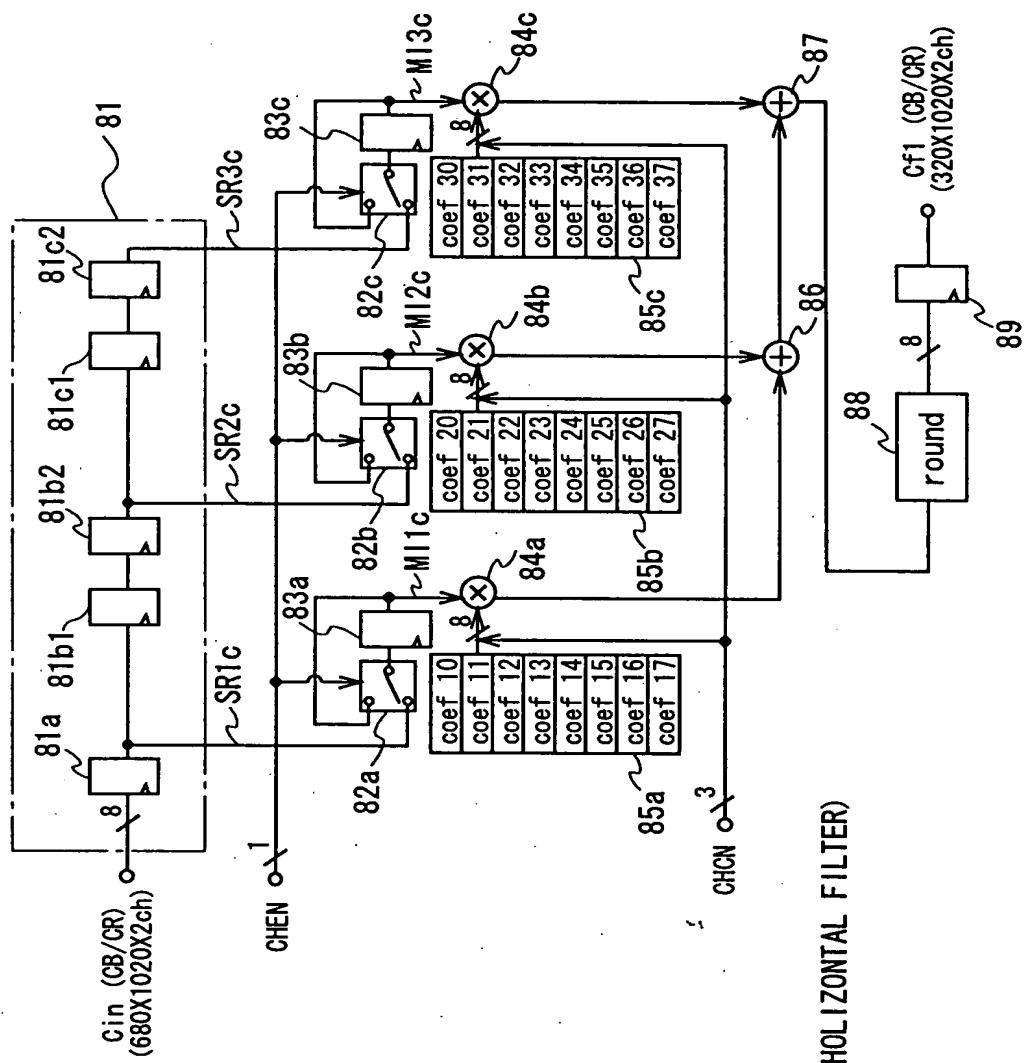
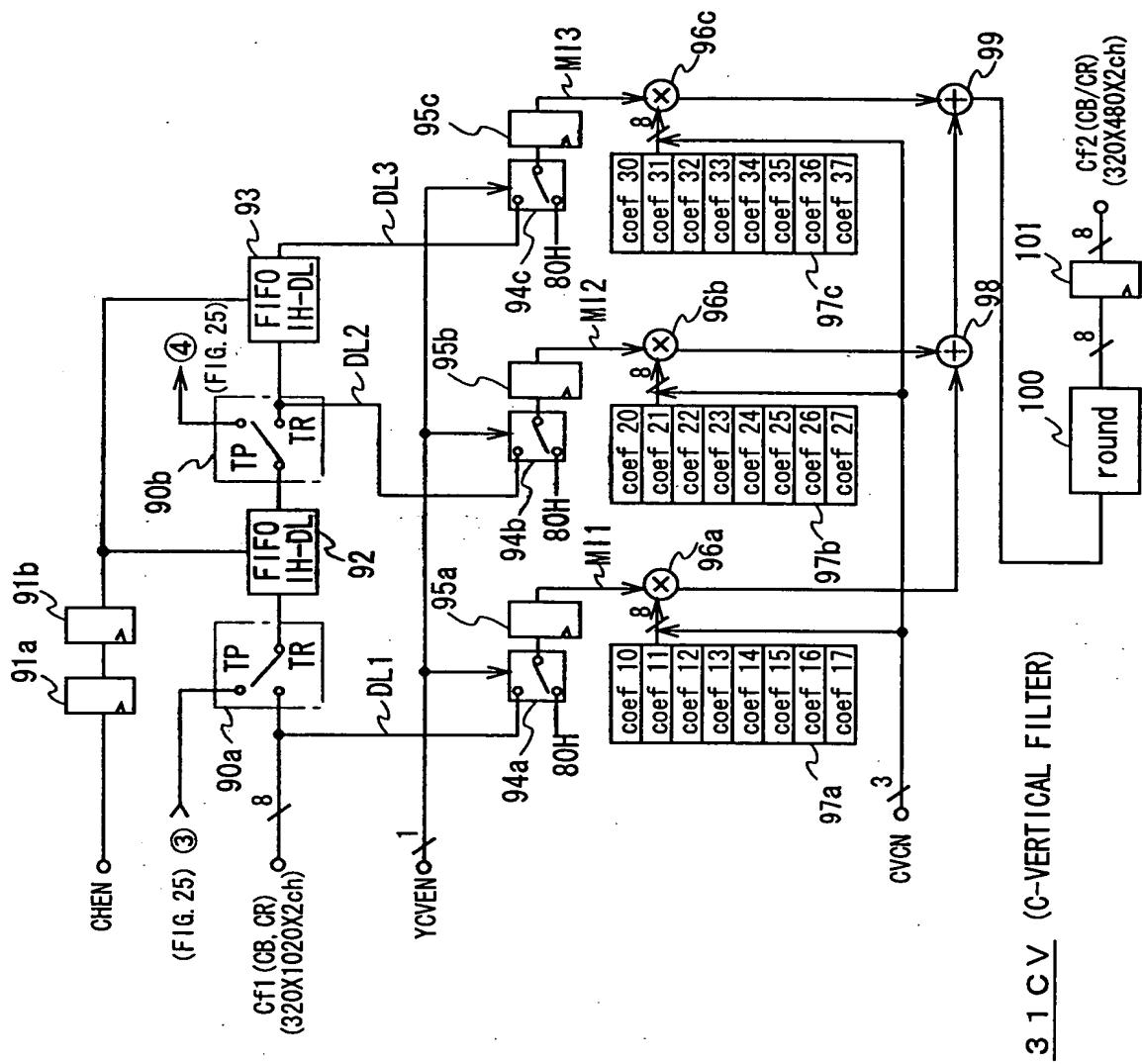


FIG. 10



## 31CH (C-HORIZONTAL FILTER)

FIG.



## 31 CV (C-VERTICAL FILTER)

FIG. 12

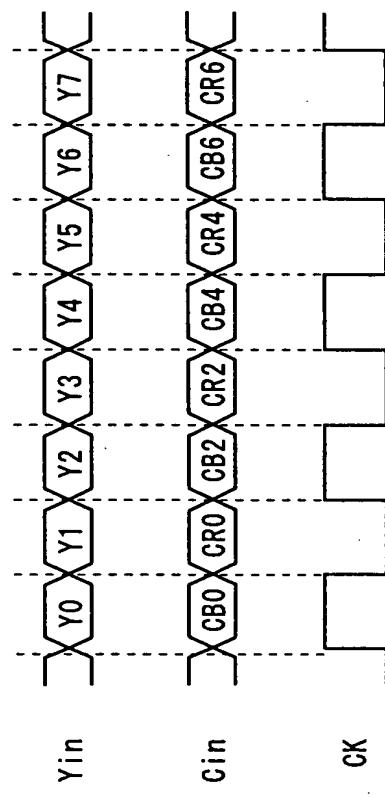
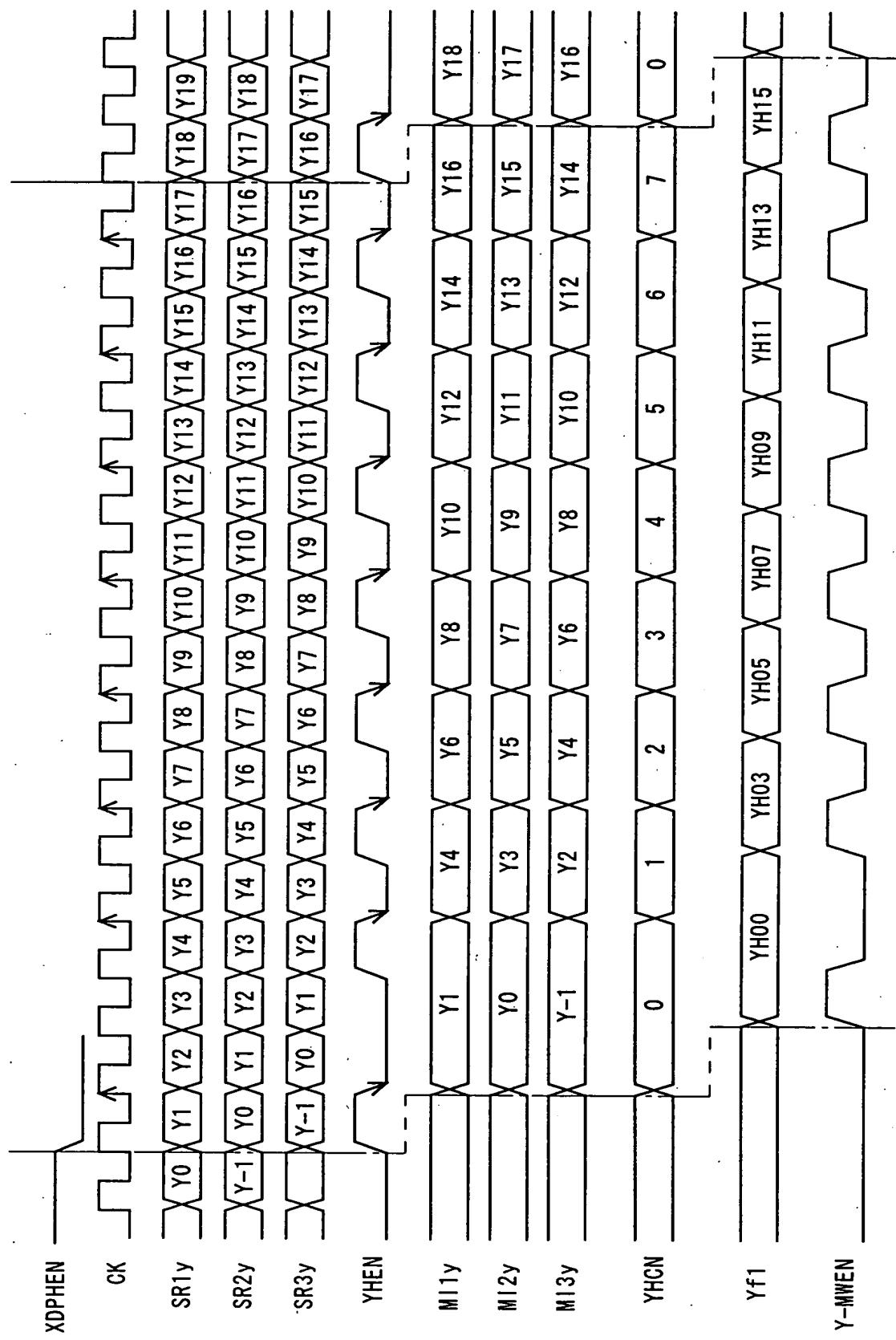
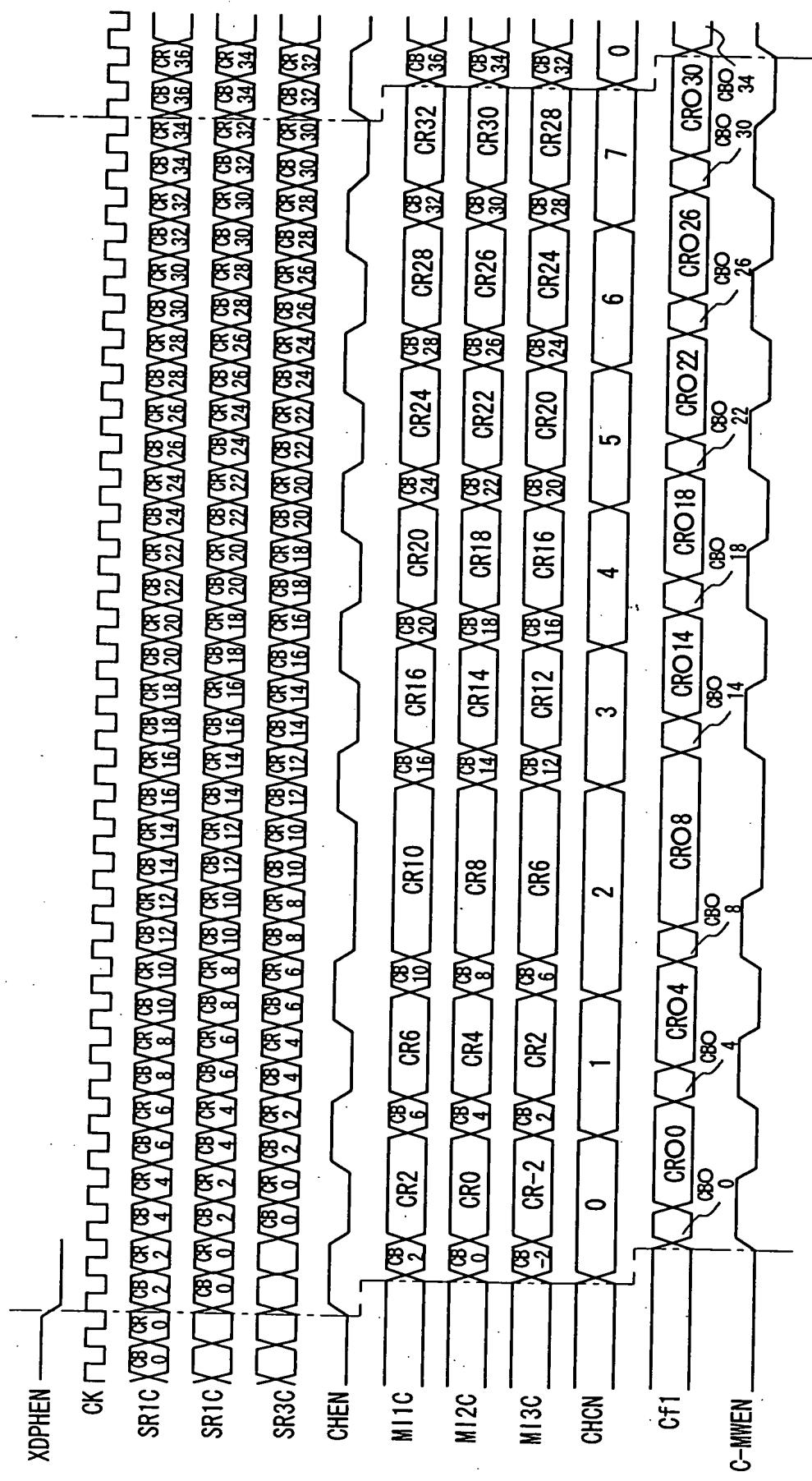


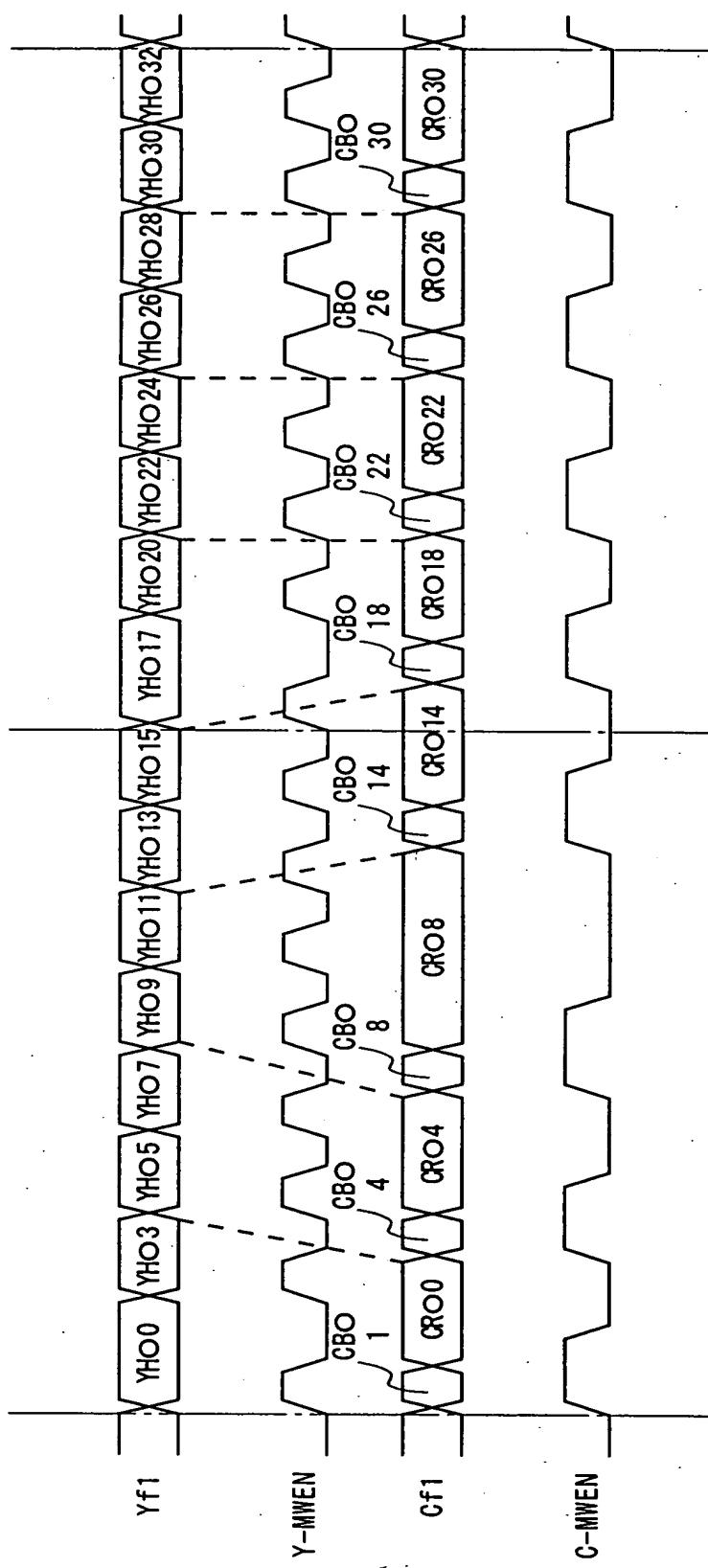
FIG. 13



HORIZONTAL THINNING-OUT TIMING OF Y-HORIZONTAL FILTER

FIG. 14





OUTPUT TIMING OF Y-, C-HORIZONTAL FILTERS

FIG. 16

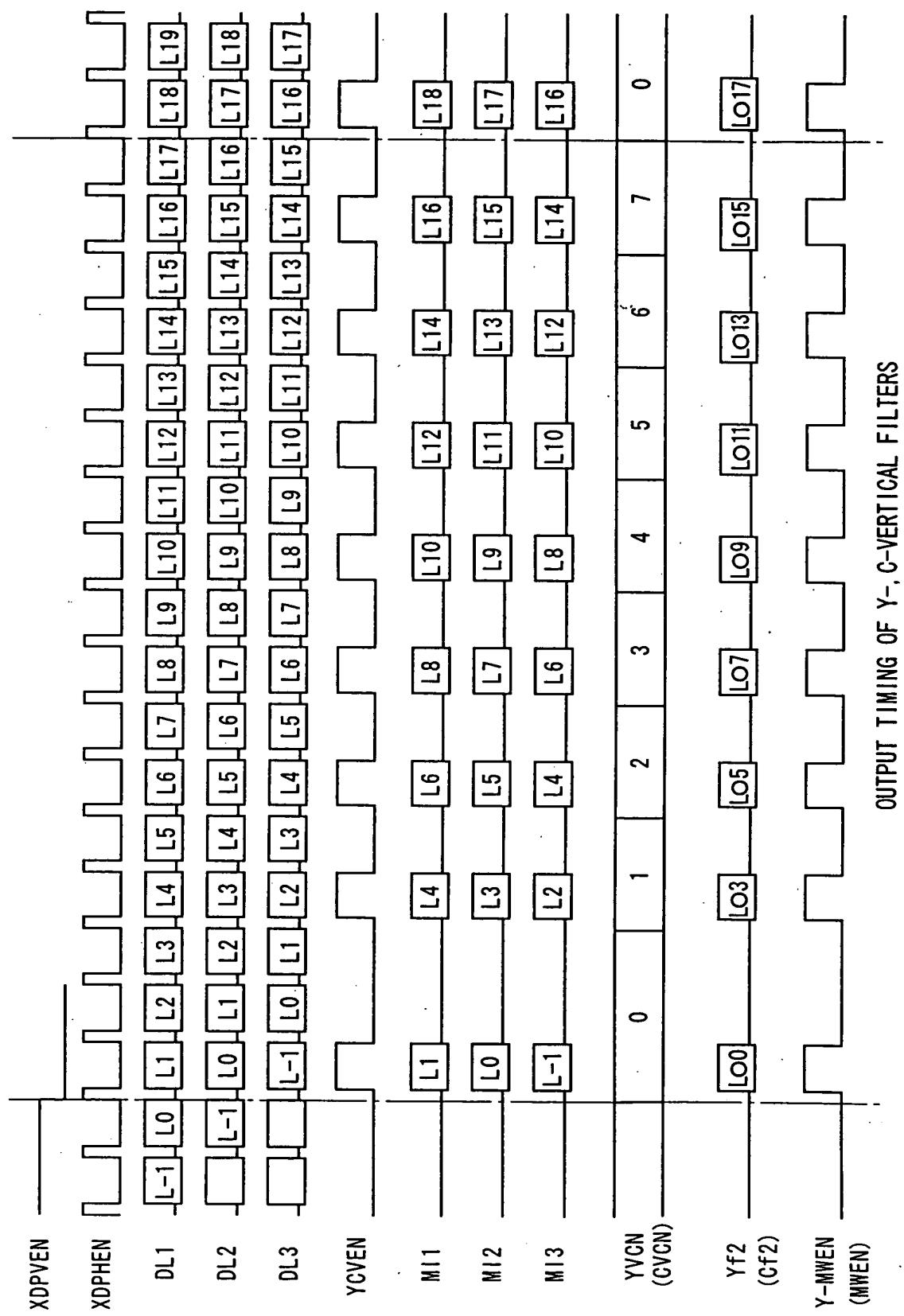


FIG. 17

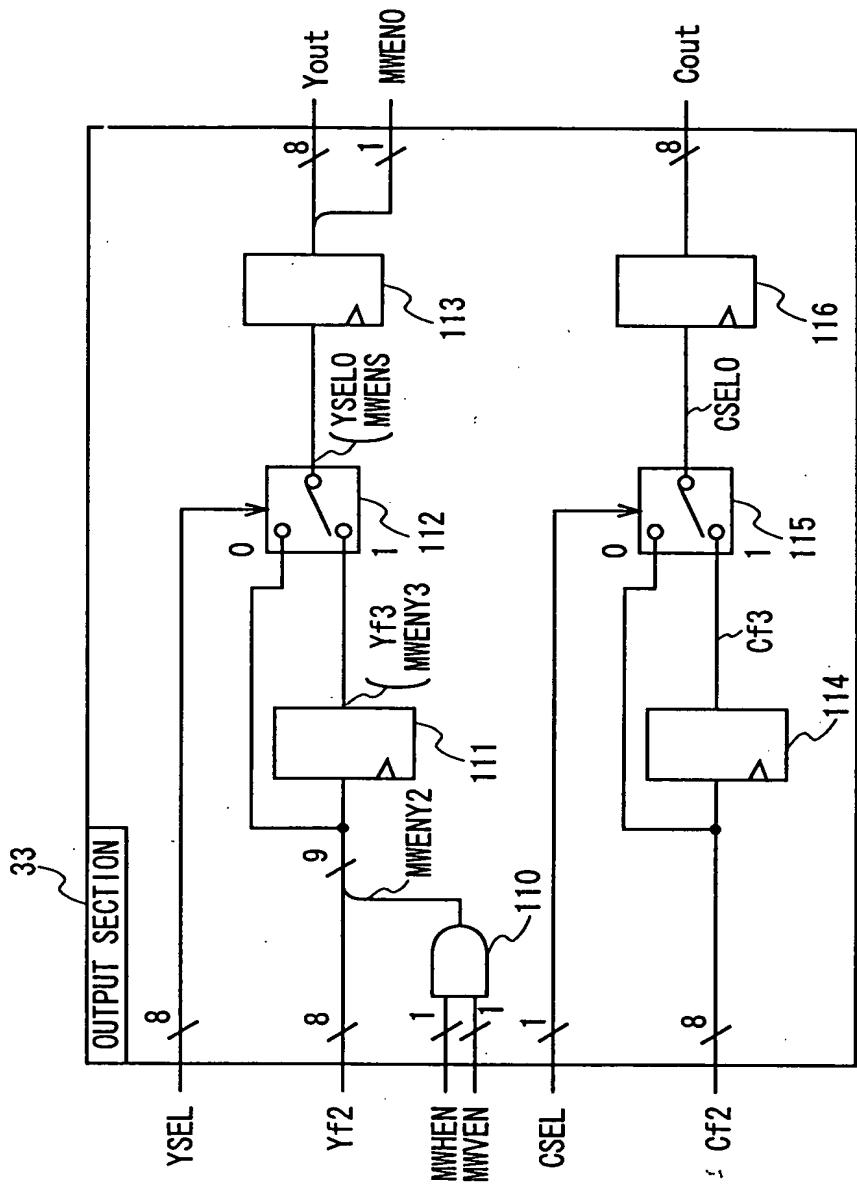
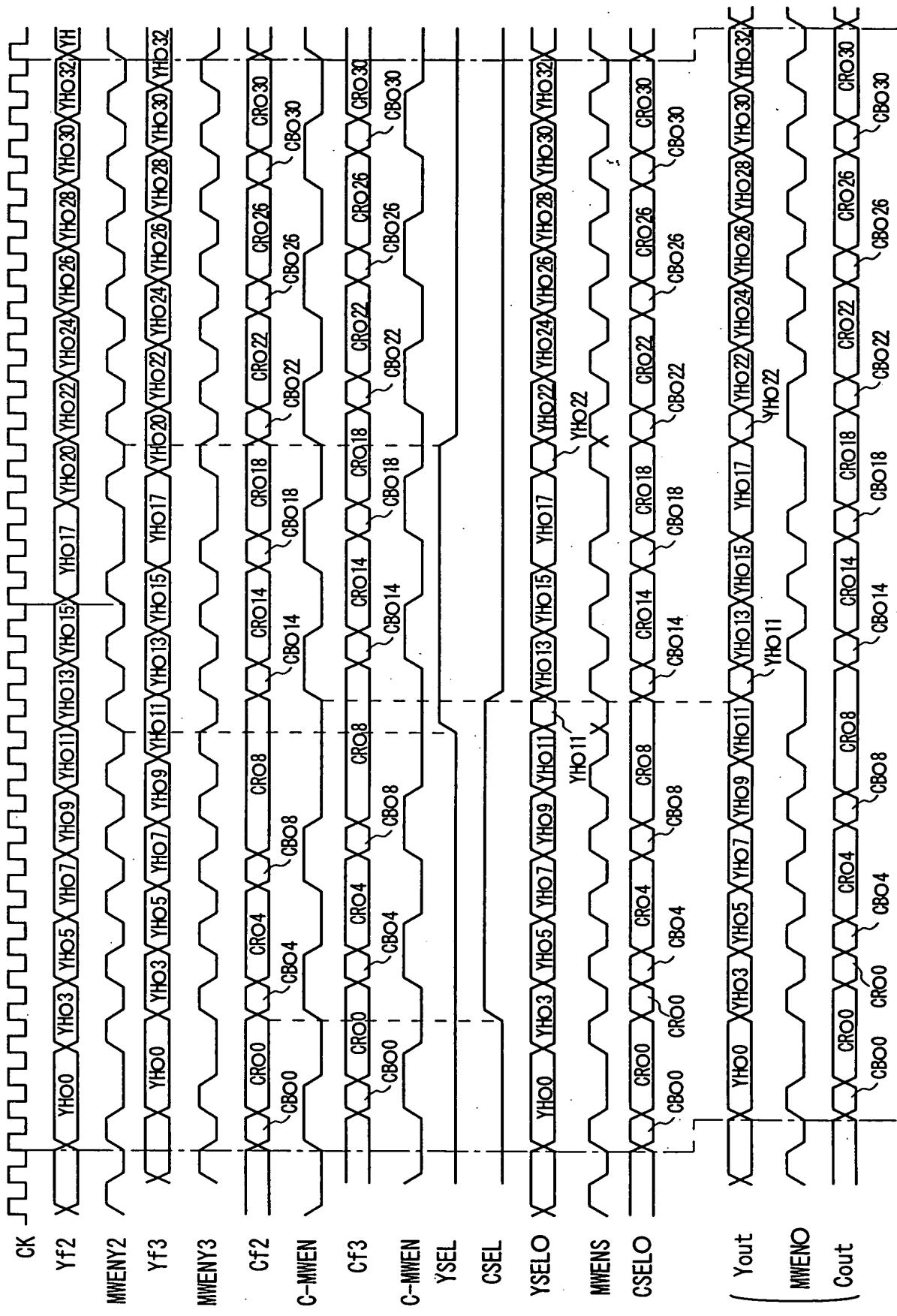
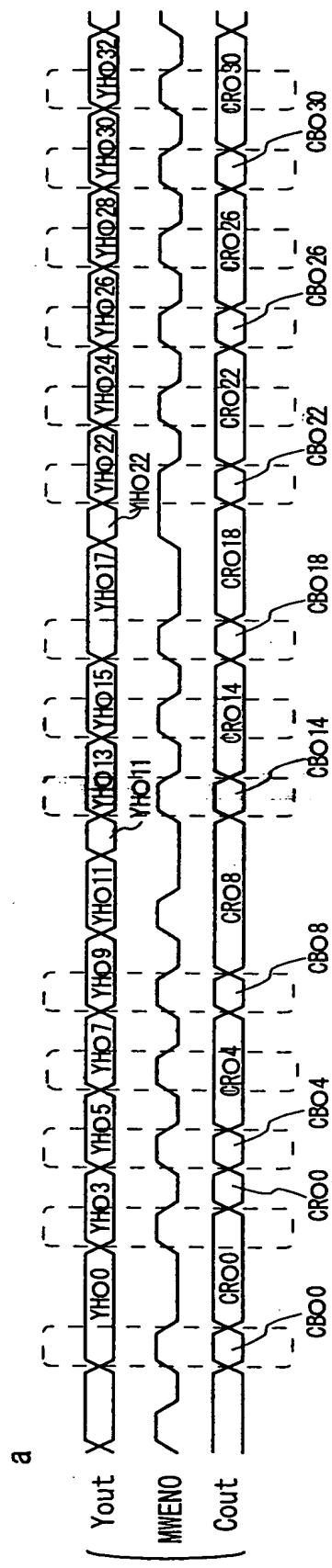


FIG. 18





| YHO |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0   | 3   | 5   | 7   | 9   | 11  | 13  | 15  | 17  | 20  | 22  | 24  | 26  |
| CBO | CRO | CBO |
| 0   | 0   | 4   | 4   | 8   | 8   | 14  | 14  | 18  | 18  | 22  | 22  | 26  |

FIG. 20

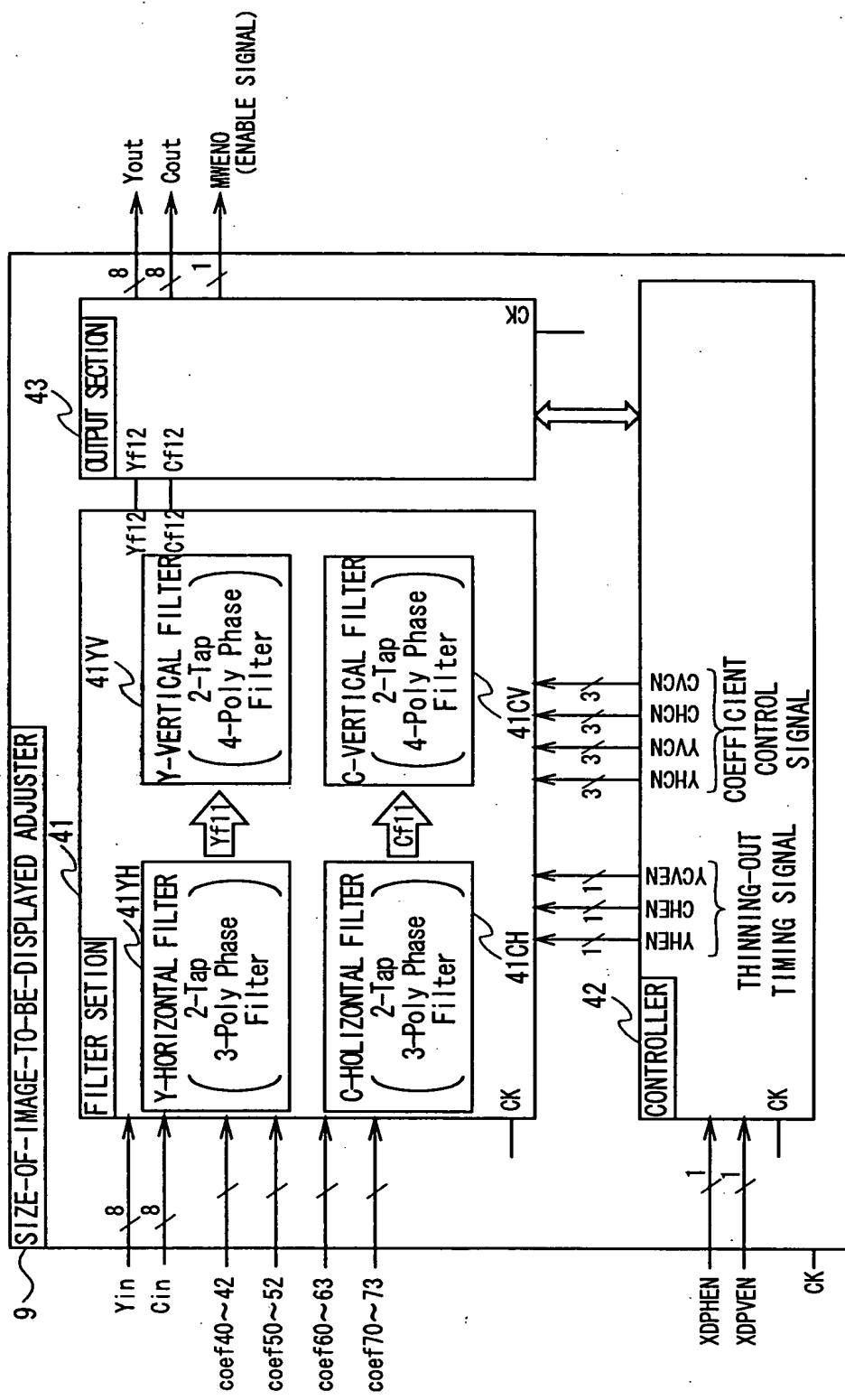
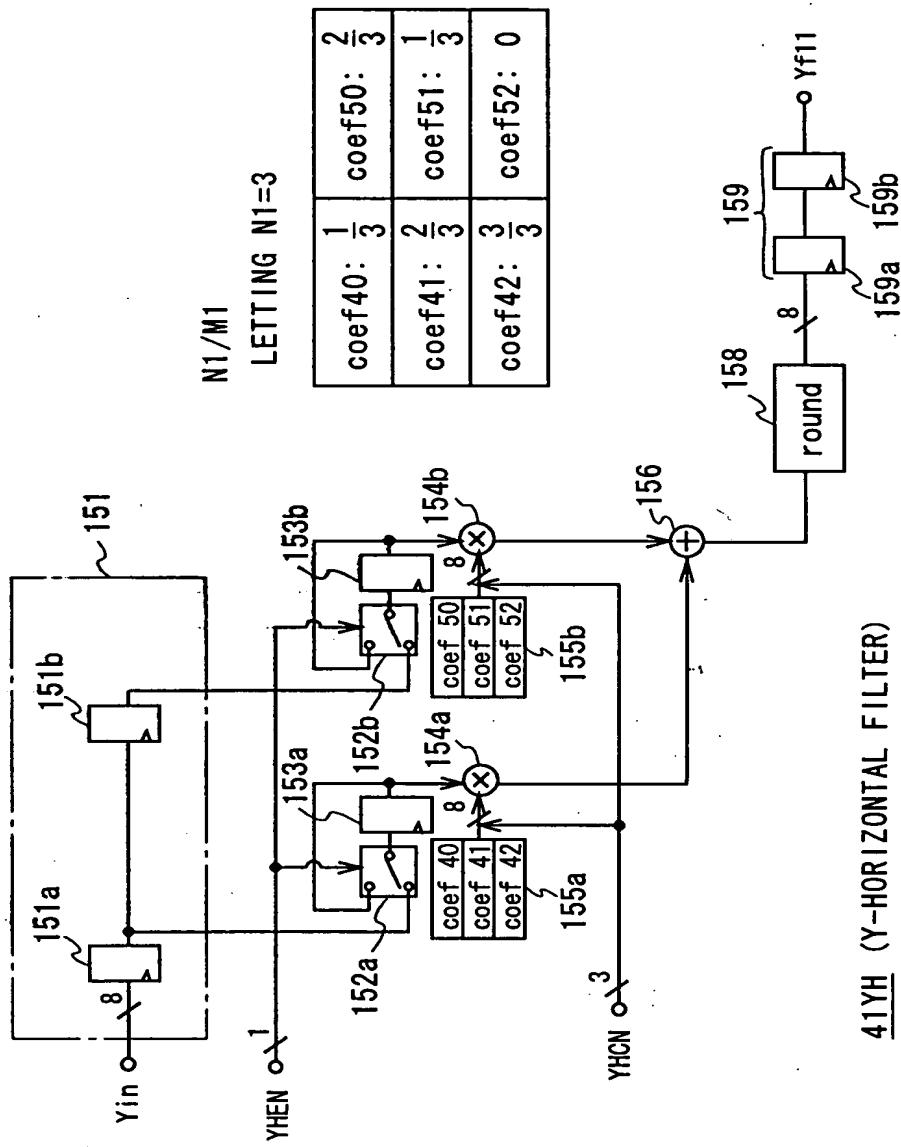


FIG. 21



41YH (Y-HORIZONTAL FILTER)

FIG. 22

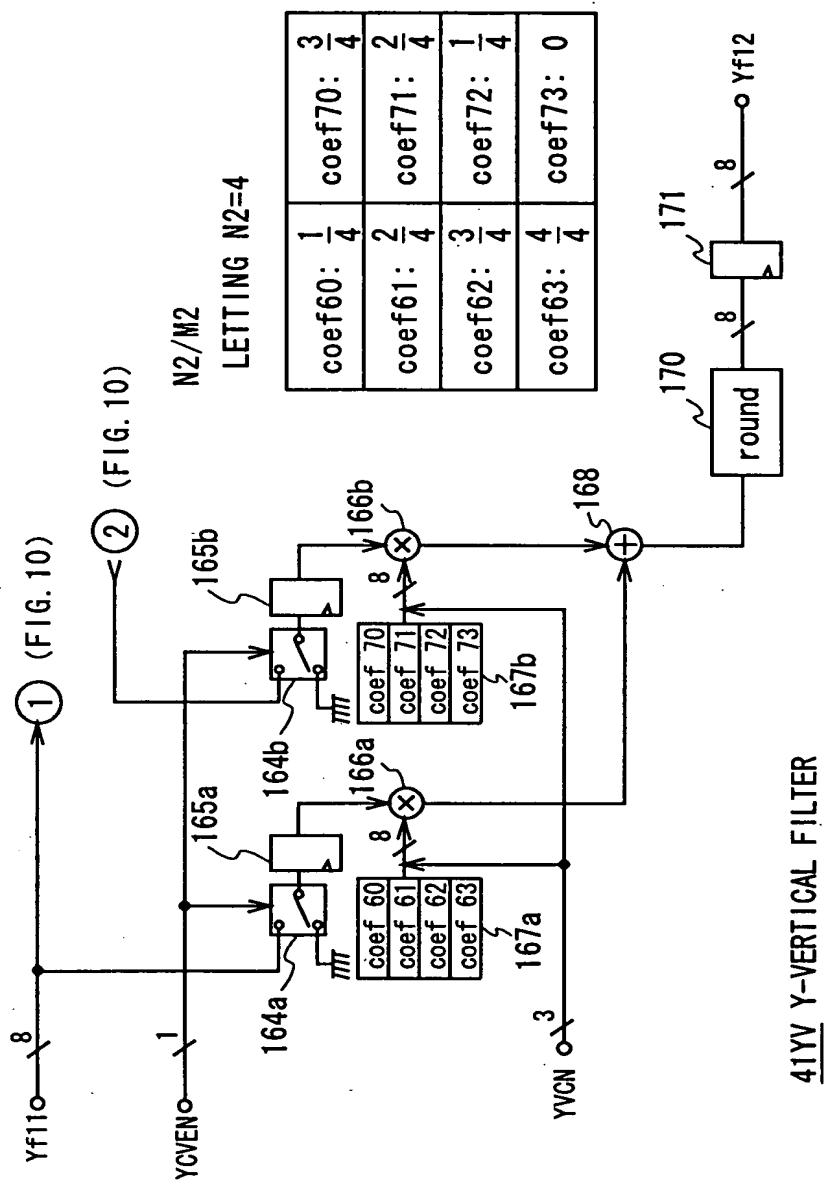
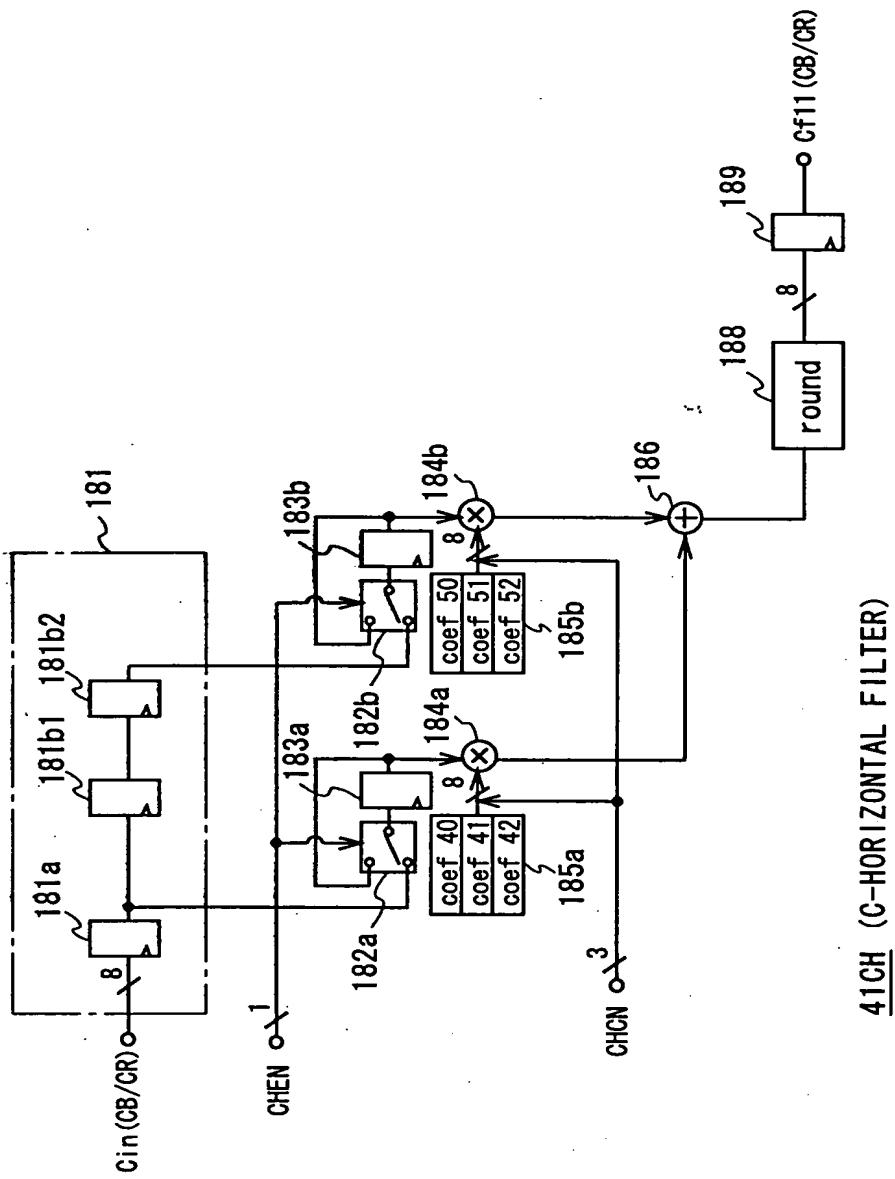


FIG. 23

41YV Y-VERTICAL FILTER



41CH (C-HORIZONTAL FILTER)

FIG. 24

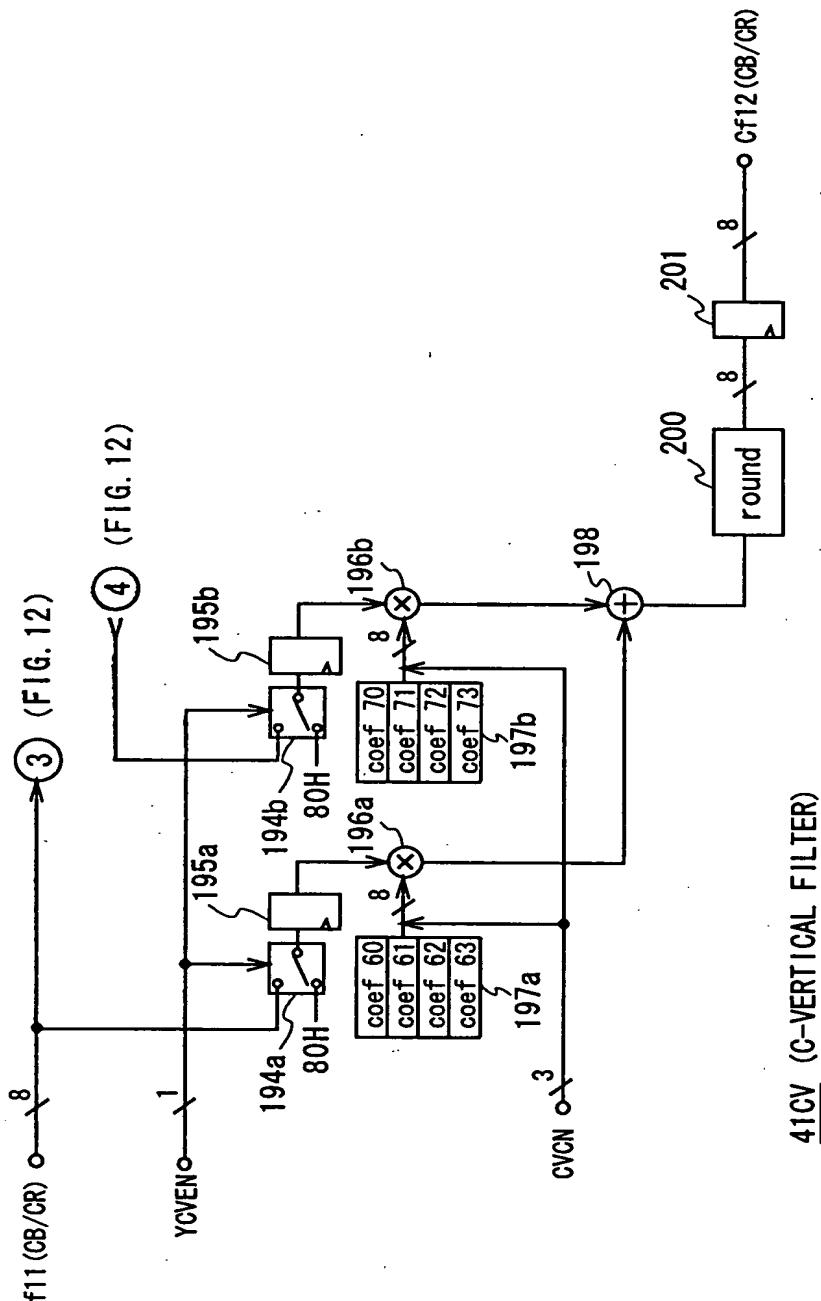


FIG. 25

41CV (C-VERTICAL FILTER)